

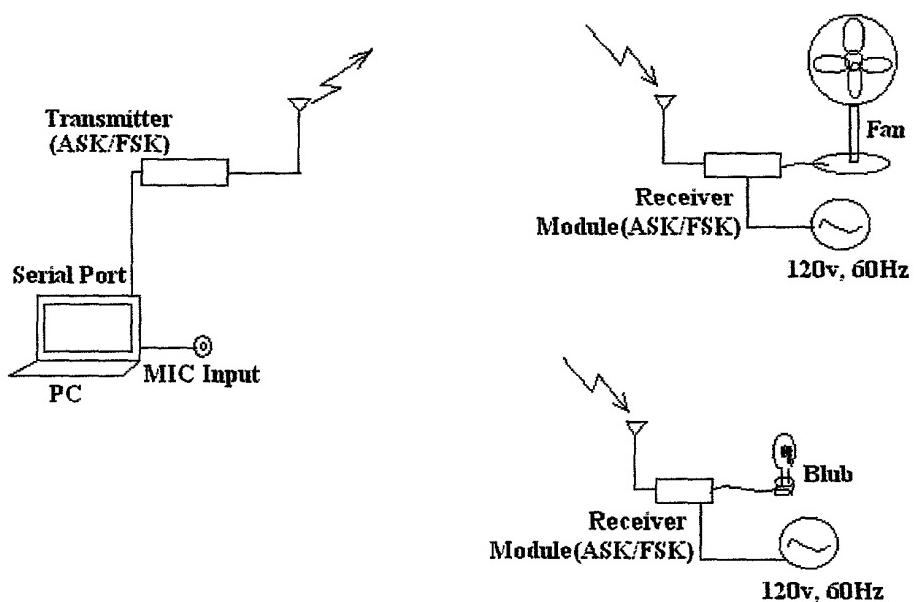
**TITLE:** System and method for voice commands recognition and controlling devices wirelessly using protocol based communication

**Inventor:** Asim H. Abbasi

(H): 919-463-0617

(C): 919-244-7351

(1)



**FIGURE 1:** Hardware setup of the voice activated wireless control system. The wireless communication of single transmitter with multiple receiver units is based on a protocol.

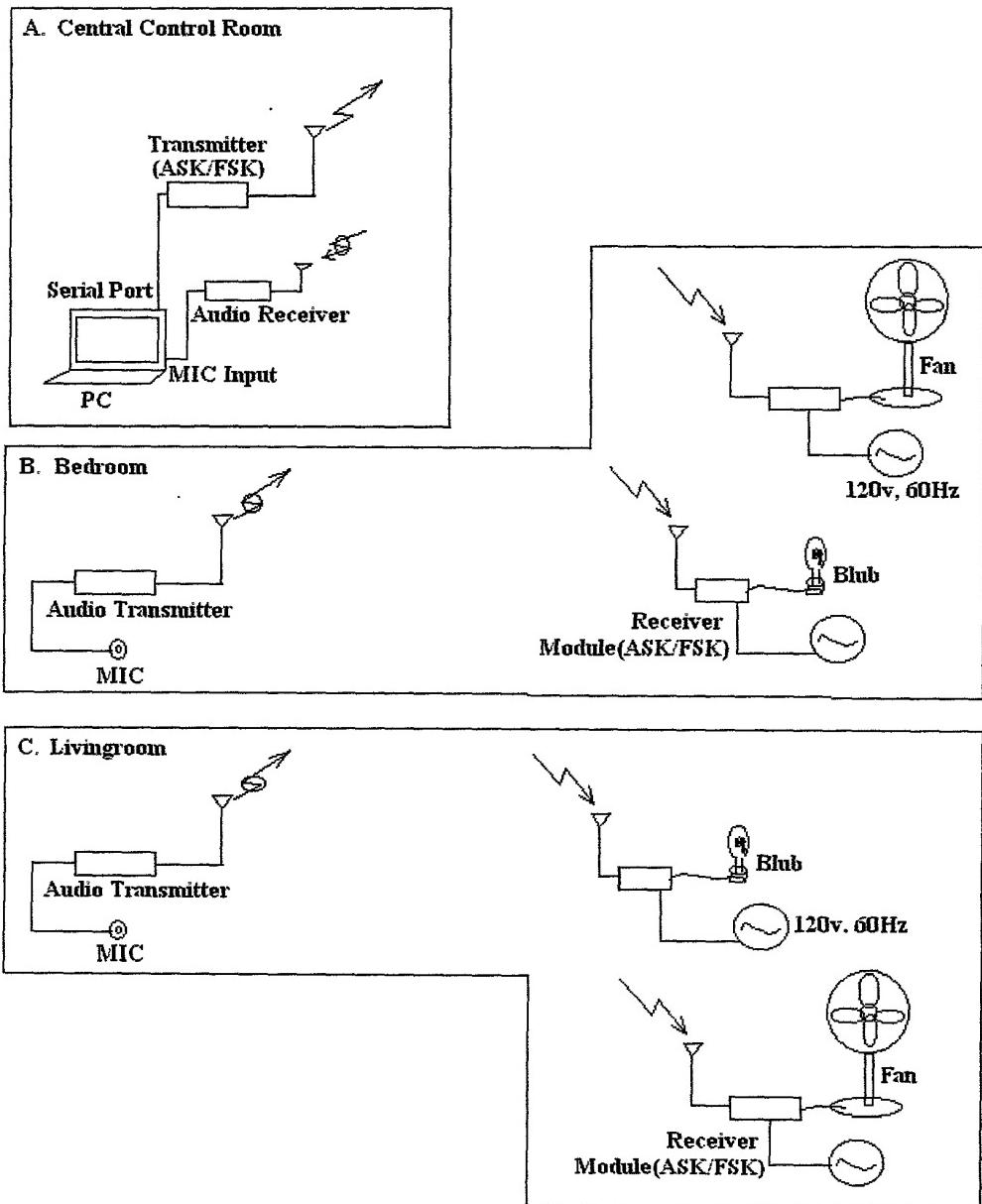
**TITLE:** System and method for voice commands recognition and controlling devices wirelessly using protocol based communication

**Inventor:** Asim H. Abbasi

(H): 919-463-0617

(C): 919-244-7351

(2)



**FIGURE 2:** Extending the Network to complete home. Audio transmitter/receiver will work based on AM/FM technique whereas Digital transmitter/receiver will work based on ASK/FSK technique.

TITLE: System and method for voice commands recognition and controlling devices  
wirelessly using protocol based communication

Inventor: Asim H. Abbasi  
(H): 919-463-0617  
(C): 919-244-7351

(3)

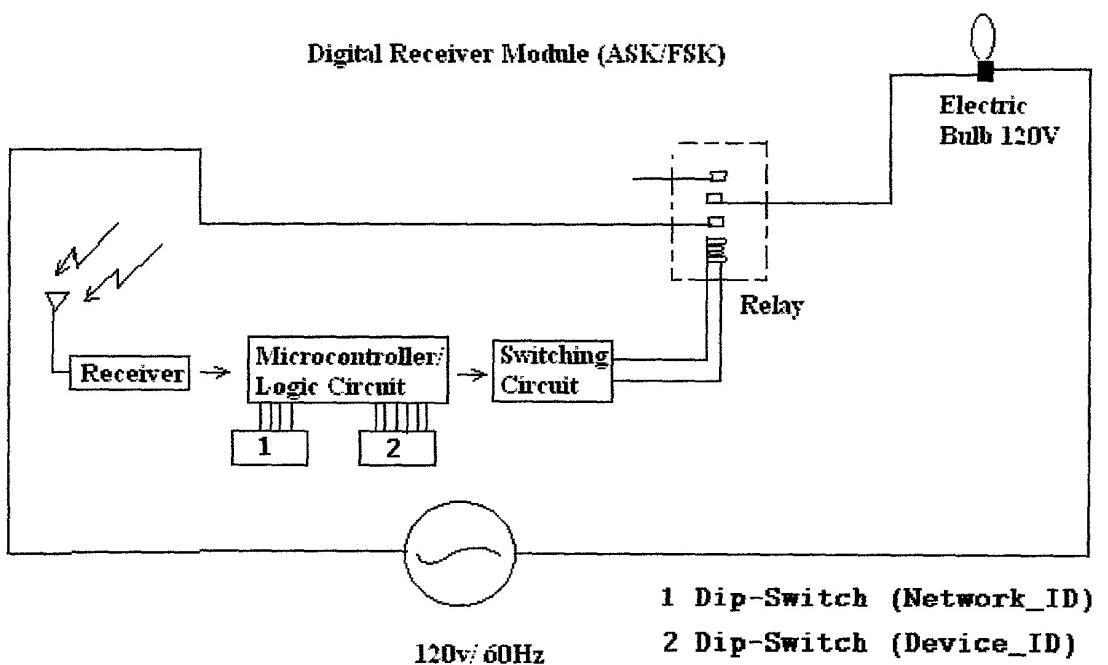


FIGURE 3: Digital Receiver Module schematic, shown attached with  
Electric bulb to be controlled.

TITLE: System and method for voice commands recognition and controlling devices wirelessly using protocol based communication

Inventor: Asim H. Abbasi

(H): 919-463-0617

(C): 919-244-7351

(4)

A.

Network_ID	Device_ID	Command

B.

0011	11100011	0001
------	----------	------

FIGURE 4: The architecture of protocol used in the wireless communication of single transmitter with multiple receiver units attached with each device to be controlled.

**TITLE: System and method for voice commands recognition and controlling devices wirelessly using protocol based communication**

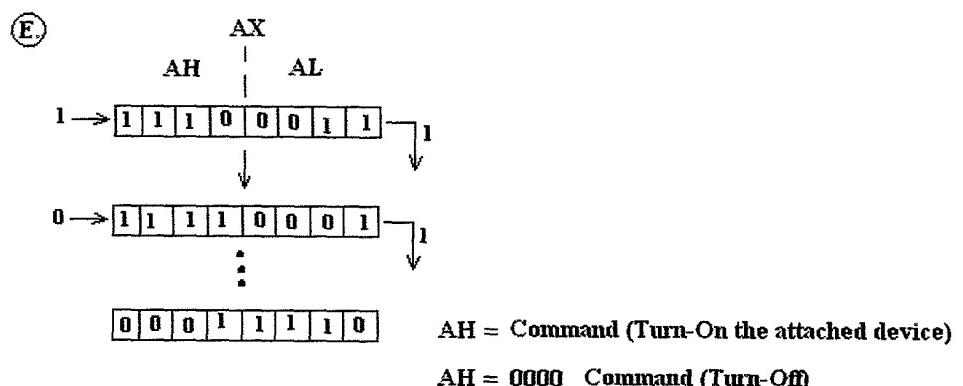
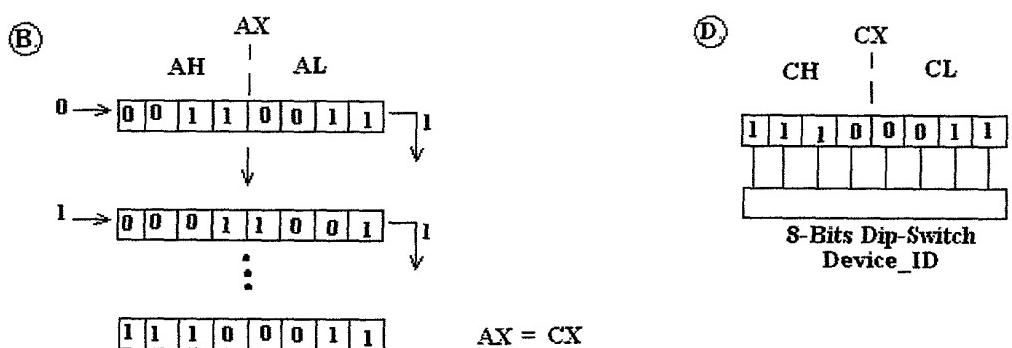
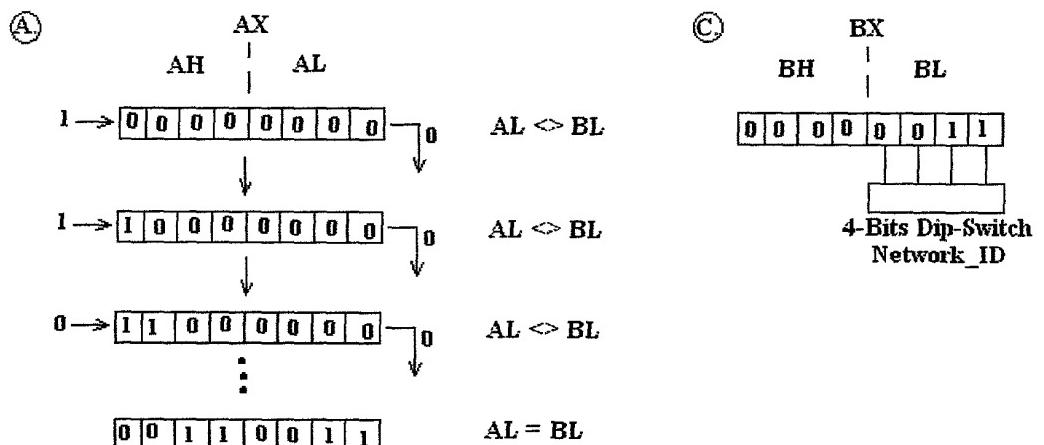
Inventor: Asim H. Abbasi

(H): 919-463-0617

(C): 919-244-7351

(5)

**Serial-in, Serial-out**



**FIGURE 5: Working of Microcontroller to implement Protocol**